INTERNATIONAL SEARCH REPORT

Internation No PCT/EP-2005/000906

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS, EMBASE

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to daim No. |
|------------|---|----------------------|
| X | WO 90/03446 A (PUBLIC HEALTH RESEARCH INSTITUTE OF THE CITY OF NE) 5 April 1990 (1990-04-05) pages 10-12; figure 12; example 5 | 1-17 |
| X | WO 03/000917 A (THE REGENTS OF THE UNIVERSITY OF CALIFORNIA) 3 January 2003 (2003-01-03) figure 6; example 7 | 1-17 |
| X | WO 03/095673 A (SIEMENS AKTIENGESELLSCHAFT; STANZEL, MANFRED; SPRINZL, MATHIAS) 20 November 2003 (2003-11-20) page 5, line 22; figure 4 pages 5-6 | 1-17 |
| | -/ | |

| Further documents are listed in the continuation of box C. | Patent family members are listed in annex. | | | | |
|--|---|--|--|--|--|
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| 31 May 2005 | 09/06/2005 | | | | |
| Name and mailing address of the ISA | Authorized officer | | | | |
| European Patent-Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Reuter, U | | | | |

INTERNATIONAL SEARCH REPORT

Internation No
PCT/EP 2005/000906

| | (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT aterrory © Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. | | | | | | |
|-------------|---|-----------------------|--|--|--|--|--|
| alegory ° | Citation of document, with indication, where appropriate, of the relevant passages | Helevant to claim No. | | | | | |
| X | EP 0 745 690 A (THE PUBLIC HEALTH RESEARCH INSTITUTE OF THE CITY OF NEW YORK, INC) 4 December 1996 (1996-12-04) column 19, line 56 - column 20, line 6 column 6, line 55 - column 7, line 20; figure 10 | 1-17 | | | | | |
| X | WO 02/00678 A (WINGER, EDWARD, E; HARGROVE, DAVID, E) 3 January 2002 (2002-01-03) page 8; claim 19 | 1-17 | | | | | |
| A . | WO 01/71043 A (QUANTUM DOT CORPORATION; BRUCHEZ, MARCEL, P., JR; LAI, JENNIFER, H; PH) 27 September 2001 (2001-09-27) the whole document | 1-17 | | | | | |
| A | WO 03/076653 A (SIMON FRASER UNIVERSITY; DIPANKAR, SEN; FAHLMAN, RICHARD, P; SEN, DIPA) 18 September 2003 (2003-09-18) the whole document | 1-17 | | | | | |
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INTERNATIONAL SEARCH REPORT

information on patent family members

Internal Int

| Patent document cited in search report | 1 | Publication date | | Patent family member(s) | | Publication date |
|--|---------|------------------|------------|-------------------------|---------------------|------------------|
| WO 9003446 | A | 05-04-1990 | ÚS | 5118801 | A | 02-06-1992 |
| | | | AT | 136941 | T | 15-05-1996 |
| | | | AU | 647376 | • | 24-03-1994 |
| | | | AU | 4346689 | A | 18-04-1990 |
| | | | DE | 68926302 | | 23-05-1996 |
| | | | DE | 68926302 | | |
| | | | | | - — | 28-11-1996 |
| | | | DK | 56091 | | 30-05-1991 |
| | | | £Ρ | | | 17-07-1991 |
| | | | ES | 2023290 | • . – | 01-01-1992 |
| | | | JP | 2806455 | - | 30-09-1998 |
| | | | JP | 75083 98 | T | 21-09-1995 |
| | | | WO | 9003446 | A1 | 05-04-1990 |
| | | | US | 5312728 | A | 17-05-1994 |
| WO 03000917 | A | 03-01-2003 | ·WO | 03000917 | A2 | 03-01-2003 |
| | | | US | 2004018492 | A1 | 29-01-2004 |
| WO 03095673 | A | 20-11-2003 | DE | 10220935 | B 3 | 05-02-2004 |
| | | | AU | 2003239 75 6 | A1 | 11-11-2003 |
| | | | WO | 03095673 | A2 | 20-11-2003 |
| | | | DE | 10393 051 | D2 | 12-05-2005 |
| EP 0745690 | A | 04-12-1996 | ÜS | 5925517 | A | 20-07-1999 |
| | | | AU | 702598 | 82 | 25-02-1999 |
| | | | AU | 5232496 | A | 21-11-1996 |
| | | | -CA | 2176266 | | 13-11-1996 |
| | | | £Ρ | 0745690 | | 04-12-1996 |
| | | | JP | 9107996 | | 28-04-1997 |
| | | | ÚS | 6103476 | • | 15-08-2000 |
| WD 0200678 | Α | 03-01-2002 | AU | 6866601 | Α | 08-01-2002 |
| | | | £Ρ | | A1 | 09-04-2003 |
| | | | WO | 0200678 | * | 03-01-2002 |
| WO 0171043 | A | 27-09-2001 | AU | 4938601 | Α | 03-10-2001 |
| | • | , , , , <u> </u> | AU | 5093701 | | 03-10-2001 |
| | | | -CA | 2403708 | | 27-09-2001 |
| | | | ΕP | 1276904 | | 22-01-2003 |
| | | | JP | 2004500109 | | 08-01-2004 |
| | | | WO | 0171043 | - | 27-09-2001 |
| | | | WO | 0171043 | | 27-09-2001 |
| | | | WO US | 2003165951 | | _ |
| | | | | | | 04-09-2003 |
| | | | US | 2004171039 | * - - | 02-09-2004 |
| | | | 112 112 | 2002039732 | | 04-04-2002 |
| | | | US | 2002034747 | ———— VI | 21-03-2002 |
| WO 030766 53 | A | 18-09-2003 | AU | 2003209881 | | 22-09-2003 |
| | | | MO | 03076653 | | 18-09-2003 |
| | | | ΈP | 1490517 | A 2 | 29-12-2004 |